Basic Chemistry quiz: Name:

1. The atomic mas is which of the following added together?

A. Electrons + Neutrons

B. Protons + Electrons

C. Atomic Number + Protons

D. Protons + Neutrons

2. Bohr found that each orbit can only hold a certain number of electrons, and these orbital levels are called \_\_\_\_\_\_\_\_\_\_.

A: clouds

B: shells

C: rods

D: none of the above

3. Bohr's shell model also explained why some of the elements in the periodic table are chemically inert. This is because the outermost shell of the atom is full. These elements are called

A: the halides

B: the alkali metals

C: the noble gases

D: the metals

4. Only a certain number of electrons may exist in an energy level, but the number varies. It can be determined by the formula…….where n is the energy level

1. 2(n)2
2. 2 (2n)
3. 2 x (n)

5. What do we call the electrons on the outermost shell?

6. Why is the 4s orbital written before the 3d orbital in the electron configuration?

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7. In the space below write the full electron configuration for the following

a. Magnesium (Mg)

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b. Nickle (Ni)

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C. Selenium (Se)

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D. Oxygen (O)

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E. Barium (Ba)

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8. Briefly explain how we use the group 8 elements to write a short version (cheat) of the electron configuration

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9. In the space below write the short hand (cheat) version of the electron configuration for:

a. Cobalt (Co)

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b. Aluminum (Al)

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C. Lithium (Li)

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